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Case No. BP9804US-CN1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/631,289
Applicant(s) : Hyldig-Nielsen et al.
Filed : July 31, 2003
TC/A.U. : Not yet assigned
Examiner : Not yet assigned
For : METHOD FOR
MULTIPLEX PNA-FISH
Customer No. : 23544

Confirmation No.:3796

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- (b) ☐ is filed within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 CFR §1.491.
- (c) ☒ as far as is known to the undersigned, is filed before the mailing date of a first Office action on the merits.
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- Office action after the filing of a request for continued examination under § 1.114.
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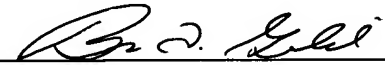
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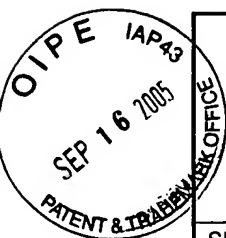
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/631,289
				Filing Date	07/31/2003
				First Named Inventor	Hyldig-Nielsen, Jens
				Group Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket No.	BP9804US-CN1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AS	5,700,636		Sheiness et al.	12/23/97	
	AT	5,422,277		Connelly et al.	06/06/95	
	AU	5,759,781		Ward et al.	06/02/98	

FOREIGN PATENT DOCUMENTS								
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	BN		WO97/18325			05/22/97		
	BO		WO98/03678			01/29/98		
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OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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	CA	Amann, R.I. et al, Fluorescent-oligonucleotide probing of whole cells for determinative, phylogenetic, and environmental studies in microbiology. <i>J. Bacteriology</i> 172, 762-770 (1990)	
	CB	Amann, R.I. et al, Combination of 16S rRNA-targeted oligonucleotide probes with flow cytometry for analyzing mixed microbial populations. <i>Appl. and Environ. Microbiol.</i> 56, 1919-1925 (1990)	
	CC	Amann, R. et al, Identification <i>in situ</i> and phylogeny of uncultured bacterial endosymbionts. <i>Nature</i> 351, 161-164 (1991)	
	CD	Amann, R. I. et al, Phylogenetic identification and in situ detection of individual microbial cells without cultivation. <i>Microbio. Reviews</i> 59, 143-169 (1995)	
	CE	Bauman, J.G.J. et al, Flow cytometric detection of ribosomal RNA in suspended cells by fluorescent <i>in situ</i> hybridization. <i>Cytometry</i> 9, 517-524 (1988)	
	CF	DeLong, E.F. et al, Phylogenetic stains: ribosomal RNA-based probes for the identification of single cells. <i>Science</i> 243, 1360-1363 (1989)	
	CG	DeLong, E.F. et al, Fluorescent, ribosomal RNA probes for clinical application: a research review. <i>Diagnos. & Clin. Testing</i> 28, 41-44 (1990)	
	CH	Fuchs, B.M. et al, Flow cytometric analysis of the in situ accessibility of <i>escherichia coli</i> 16S rRNA for fluorescently labeled oligonucleotide probes. <i>Appl. and Environ. Microbiol.</i> 64, 4973-4982 (1998)	
	CI	Giovannoni, S.J. et al, Phylogenetic group-specific oligodeoxynucleotide probes for identification of single microbial cells. <i>J. Bacteriology</i> 170, 720-726 (1988)	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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CJ	Hahn, D. et al, Oligonucleotide probes that hybridize with rRNA as a tool to study <i>Frankia</i> stains in root nodules. Applied and Environ. Microbiol. 56, 1342-1346 (1990)	
CK	Hahn, D. et al, Extraction of ribosomal RNA from soil for detection of <i>Frankia</i> with oligonucleotide probes. Arch. Microbiol. 154, 329-335 (1990)	
CL	Hahn, D. et al, Detection of micro-organisms in soil after in situ hybridization with rRNA-targeted, fluorescently labelled oligonucleotides. J. Gen. Microbiol. 138, 879-887 (1992)	
CM	Heidelberg, J.F. et al, Enumeration of <i>Vibrio vulnificus</i> on membrane filters with a fluorescently labeled oligonucleotide probe specific for kingdom-level 16S rRNA sequences. Appl. and Environ. Microbiol. 59, 3474-3476 (1993)	
CN	Heiles, H.B.J. et al, <i>In situ</i> hybridization with digoxigenin-labeled DNA of human papillomaviruses (HPV 16/18) in HeLa and SiHa cells. BioTechniques 6, 978-981 (1988)	
CO	Herron, P.R. et al, New method for extraction of streptomycete spores from soil and application to the study of lysogeny in sterile amended and nonsterile soil. Appl. and Environ. Microbiol. 56, 1406-1412 (1990)	
CP	Holben, W.E. et al, DNA probe method for the detection of specific microorganisms in the soil bacterial community. Appl. and Environ. Microbiol. 54, 703-711 (1988)	
CQ	Just, T. et al, Flow cytometric detection of EBV (EBER snRNA) using peptide nucleic acid probes. J. Virol. Methods 73, 163-174 (1998)	
CR	Lansdorp, P.M., Close encounters of the PNA kind. Nature Biotech. 14, 1653 (1996)	
CS	Lansdorp, P.M. et al, Telomeres in the haemopoietic system. Telomers and Telomerase (eds. DJ Chadwick & G. Cardew), John Wiley & Sons Ltd., West Sussex, UK, pp 209-222 (1997)	
CT	Lansdorp, P.M. et al, Heterogeneity in telomere length of human chromosomes. Human Mol. Gen. 5, 685-691 (1996)	
CU	Seal, S.E. et al, Differentiation of <i>Pseudomonas solanacearum</i> , <i>Pseudomonas syzygii</i> , <i>Pseudomonas picketti</i> and the blood disease bacterium by partial 16S rRNA sequencing: construction of oligonucleotide primers for sensitive detection by polymerase chain reaction. J. Gen. Microbiol. 139, 1587-1594 (1993)	
CV	Taneja, K.L., Localization of trinucleotide repeat sequences in myotonic dystrophy cells using a single fluorochrome-labeled PNA probe. BioTechniques 24, 472-76 (1998)	
CW	Thisted, M. et al, Detection of immunoglobulin kappa light chain mRNA in paraffin sections by <i>in situ</i> hybridization using peptide nucleic acid probes. Cell Vision 3, 358-363 (1996)	
CX	Thisted, M. et al, Application of peptide nucleic acid probes for in situ hybridization. PNA Applications and Protocols , Horizon Scientific Press, in press.	
CY	Ward, D.M. et al, 16S rRNA sequences reveal numerous uncultured microorganisms in a natural community. Nature 345, 63-65 (1990)	
CZ	Weisburg, W.G. et al, 16S Ribosomal DNA amplification for phylogenetic study. J. Bacteriol. 173, 697-703 (1991)	
DA	Zarda, B. et al, Identification of single bacterial cells using digoxigenin-labelled, rRNA-targeted oligonucleotides. J. Gen. Microbiol. 137, 2823-2830 (1991)	
DB	Stefano, K. et al, Diagnostic Applications of PNA Oligomers. Diagnostic Gene Detection and Quantification Technologies for Infectious Agents and Human Genetic Diseases. #948 IBC Library Series, 19-37 (1997)	
DC	Pluskal, M. et al, Peptide Nucleic Acid Probes and their Application in DNA and RNA Blot Hybridization Analysis. American Society for Biochemistry and Molecular Biology. Abstract #35. 85th Annual Meeting, Washington, DC May 21-25, 1994	

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